

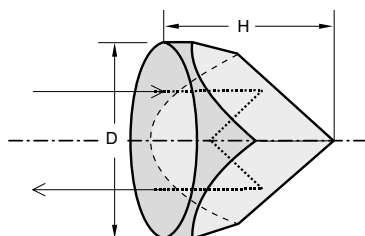
CORNER CUBES

Features

- Incident light deviates by 180 degrees independently of the angle of incidence

These prisms have 3 mirror surfaces making angles of 90° to each other, juxtaposed to form the corner of a cube with the entrance face perpendicular to the cube diagonal. Respective of an incident direction, all beams are reflected back to the original direction. Solid corner cubes are used in high precision applications or with lasers over very long distances. These "angle insensitive" mirrors therefore find frequent applications in situations where orientation is difficult or impossible to control and where a mirror would therefore be unsatisfactory.

Contact us for other types of prisms e.g. trapezoidal, various isosceles, Dove, Amici, Penta, etc.



Specifications

Material	BK7, UV FS
Surface quality	60 – 40 scratch & dig (MIL-PRF-13830B)
Surface flatness	$\lambda/4$ at 633 nm
Angle tolerances	± 5 arcsec
Beam deviation	$180^\circ \pm 30$ sec
Diameter tolerance	+0.0 / -0.3mm
Clear aperture	>80%
Coating	uncoated

Material	Diameter D, mm	Height H, mm	Catalogue number	Price, EUR
BK7	22.0	17.5	340-0217	120
	25.4	17.5	340-0217M	140
	25.4	19.0	340-0219	135
	38.1	28.5	340-0329	175
	50.8	38.0	340-0538	180
	63.5	48.0	340-0648	250
UV FS	22.0	17.5	340-1217	165
	25.4	17.5	340-1217M	185

Models 340-0217M and 340-1217M are mounted into black anodized aluminium ring $\varnothing 25.4$ mm and clear aperture $\varnothing 17$ mm.

Mounting Suggestion



Housing accessories

Kinematic Mirror and Beamsplitter Mount 840-0020

Find more at EksmaOptics.com



Most of the Corner Cubes are available for fast off-the-shelf delivery. Check the availability at www.eksmaoptics.com

